

United States Patent [19]

Sartori et al.

[11] **4,217,238**
 [45] Aug. 12, 1980

[54] **PROCESS FOR REMOVING ACID GASES WITH HINDERED AMINES AND AMINO ACIDS**

[75] Inventors: Guido Sartori, Linden; David W. Savage, Summit, both of N.J.

[73] Assignee: Exxon Research & Engineering Co., Florham Park, N.J.

[21] Appl. No.: 835,810

[22] Filed: Sep. 22, 1977

Related U.S. Application Data

[62] Division of Ser. No. 750,520, Dec. 14, 1976, Pat. No. 4,094,957.

[51] Int. Cl.² C09K 3/00

[52] U.S. Cl. 252/192; 423/220; 423/223; 260/584 R; 252/189; 252/190; 423/226; 423/228; 423/232

[58] Field of Search 252/192, 189, 190; 423/220, 223, 226-228, 232, 233, 236, 243; 260/584 R

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Primary Examiner—Benjamin R. Padgett

Assistant Examiner—J. L. Barr

Attorney, Agent, or Firm—Albert P. Halluin

[57] ABSTRACT

Acidic components are removed from gaseous mixtures by contacting the gaseous mixture with an aqueous solution comprising (1) a basic salt and (2) an activator for said basic salt comprising at least one sterically hindered amine and an aminoacid which is a cosolvent for the sterically hindered amines. The aminoacid serves to prevent phase separation of the aqueous solution at high temperatures and low fractional conversions during the contacting.

11 Claims, No Drawings

No active tr.



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>Title: **JP53081490A2:**
**RITSUTAISHOGAIAMINOYOBIAMINOSANDESANSEIGASUOJOKYON
REMOVING ACIDIC GASES WITH STERIC HINDRANCE AMINE AND**

Country: JP Japan

Kind: A2 (See also: [JP63007813B4](#))Inventor: GUIDO SARUTORI;
DEIBITSUDO DABURIYUU SABEJI;Assignee: ESSO RES * ENG CO
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Application Number: **JP1977000149457**IPC Code: Advanced: [B01D 53/14](#); [B01D 53/40](#); [B01D 53/48](#); [B01D 53/52](#); [B01D 53/62](#);
[B01D 53/77](#);
Core: more...
IPC-7: [B01D 53/16](#);

ECLA Code: None

Priority Number: 1976-12-14 [US1976000750520](#)INPADOC Legal Status: None [Buy Now: Family Legal Status Report](#)

Family:



Buy PDF	Publication	Pub. Date	Filed	Title
<input type="checkbox"/>	US4217238	1980-08-12	1977-09-22	Process for removing acid gases with hindrance amine
<input type="checkbox"/>	US4094957	1978-06-13	1976-12-14	Process for removing acid gases with hindrance amine
<input checked="" type="checkbox"/>	NL7712558A	1978-06-16	1977-11-15	WERKWIJZE VOOR HET VERWIJDEREN VAN GASMEENGELS.
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<input checked="" type="checkbox"/>	JP63007813B4	1988-02-18	1977-12-14	RITSUTAISHOGAIAMINOYOBIAMINOSANDESANSEIGASUOJOKYON
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<input checked="" type="checkbox"/>	FR2374071A1	1978-07-13	1977-11-16	PROCEDE ET COMPOSITION POUR ENLEVER LES ACIDES D'UN MELANGE GAZEUX, A L'AIDE D'AMINOSAURAT

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<input checked="" type="checkbox"/>	DE2755569C2	1990-05-03	1977-12-09	Verfahren zur Entfernung von CO ₂ aus einer Absorptionsloesung
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<input checked="" type="checkbox"/>	AU3096777A1	1979-11-15	1977-11-25	REMOVING ACID GASES
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Other Abstract
Info:



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